Canon

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: C-EXV9 Magenta Toner

DESCRIPTION: Toner

USED WITH MACHINES: iR3100C, iR3100CN, iR3170C/i, iR2570C/i

MANUFACTURER: Canon Inc.

30-2, Shimomaruko 3-Chome, Ohta-Ku

Tokyo 146, Japan Phone: 03-3758-2111

DISTRIBUTER: Canon (UK) Ltd

Woodhatch Reigate Surrey RH2 8BF

Phone: 01737 220000

DATE PREPARED: 16/04/03

DATE REVISED: 15/12/05

UK MSDS REF: MSDS3254



SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon C-EXV 9 Magenta Toner

Product Code: 8642A / F42-6221

Company Name: Canon Inc.

Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

Use of the Product: Toner for electrophotographic apparatus

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

< Ingredient(s) >

Chemical Name / Generic name	CAS#/ EC#	Weight %	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Styrene acrylate copolymer	Confidential	75-85	None/ None	Not established	Not established	Not established	Not established
Wax	Confidential	5-10	None/ None	Not established	Not established	Not established	Not established
Pigment	Confidential	1-7	None/ None	Not established	Not established	Not established	Not established

< Carcinogen >

Chemical Name CAS# Reference

No component of this toner is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Magenta fine powder, slight plastic odor.

Potential Health Effects and Symptoms:

Inhalation:

Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

Ingestion:

Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

Eye:

May cause transient slight irritation.

Skin:

May be non-irritant.

Chronic Effects:

Prolonged inhalation of excessive amounts of dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

Medical Conditions Generally known to be Aggravated by Exposure:

Not determined

SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:

Rinse mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occurs, obtain medical advice immediately.

Eye:

Do not allow victim to rub eye(s). Flush with lukewarm, gently flowing water for 5 minutes or until particle is removed. If irritation persists, obtain medical attention.

Skin:

Wash with soap and water. If irritation persists, obtain medical advice.

Note to Physicians:

None

SECTION 5 FIRE FIGHTING MEASURES

Fire Fighting Measures:

Extinguishing Media:

CO2, water, dry chemicals

Unsuitable Extinguishing Media:

None

Special Fire Fighting Procedures:

None

Unusual Fire and Explosion Hazards:

Can form explosive dust-air mixtures when finely dispersed in air.

Fire and Explosive Properties (See also Section 9):

Hazardous Combustion Products:

CO2, CO

Other Properties:

Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid breathing dust.

Environmental Precautions:

Do not wash away into sewer.

Method for Cleaning Up:

Sweep slowly spilled powder on to paper, and carefully transfer into a waste container. Clean remainder with wet paper, wet cloth or a vacuum cleaner.

If a vacuum cleaner is used, it must rate as a dust explosion-proof type. Fine powder can form explosive dust-air mixtures.

SECTION 7 HANDLING AND STORAGE

Handling:

Avoid breathing dust.

Use with adequate ventilation.

Storage:

Keep out of the reach of children.

Keep away from oxidizing materials.

Specific Uses:

Toner for electrophotographic apparatus.

For more information, please refer to the instruction of this product.

ROLS / PERSONAL PROTECTION							
Exposure Guidelines: USA OSHA PEL (TWA): 15 mg/m³ (Total dust), 5 mg/m³ (Respirable fraction) ACGIH TLV (TWA): 10 mg/m³ (Inhalable fraction), 3 mg/m³ (Respirable fraction) DFG (MAK): 4 mg/m³ (Inhalable fraction), 1.5 mg/m³ (Respirable fraction) (Also refer to SECTION 2)							
Personal Protection Equipment(s):							
nired							
nired							
nired							
IEMICAL PROPERTIES							
Magenta fine powder							
Slight plastic odor							
Not applicable							
Not applicable							
100 - 150 (Softening point)							
>200							
Not applicable							
Not applicable							
Not available							
Not-flammable(Test method: Directive 92/69/EEC, A10 Flammability (Solids))							
Can form explosive dust-air mixtures when finely dispersed in air.							
Not available							
Not applicable							
Not applicable							
1.0 - 1.2							
Negligible							
Partially soluble in toluene and xylene.							
Not applicable							
Negligible							
Not applicable							
Not applicable							

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SECTION 10 STABILITY AND	REACTIVITY				
Stability:	Stable ☐ Unstable				
Conditions to Avoid:	None				
Materials to Avoid:	Strong oxidizers				
${\bf Hazardous\ Decomposition\ Products:}$	CO, CO2				
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur				
Conditions to Avoid:	None				
SECTION 11 TOXICOLOGICA	AL INFORMATION				
Acute Toxicity: Inhalation: Not available					
Ingestion: Estimate: Rat, LD50> 2000 mg/kg					
Eye:					
Estimate: Rabbit, transient slight conjunctival irritation only.					
Skin: Estimate: Rabbit, non-irritant					
Sensitization: Estimate: Guinea pig, skin: Non-sensitizing					
Mutagenicity: Ames Test (S. typhimurium, E. coli): Negative					
Reproductive Toxicity: Not available					
Carcinogenicity: Not available					
Others: Chronic effects:					

Muhle et al. reported pulmonary response upon chronic inhalation exposure in rats to a toner enriched in respirable-sized particles compared to commercial toner. No pulmonary change was found at 1mg/m³ which is most relevant to potential human exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at 4mg/m³, and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16mg/m³. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.

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SECTION 12 E	COLOG	ICAL INFORMATION			
Mobility:		Not available			
Persistence / Degrad	lability:	Not available			
Bioaccumulation:		Not available			
Ecotoxicity:		Not available			
Other Adverse Effec	ets:	Not available			
SECTION 13 D	ISPOSA	L CONSIDERATION			
container, unless d	r or toner lust-explo	container into fire; heated toner may cause severe burns. DO NOT shred a toner osion preventing measures are taken. Finely dispersed particles form explosive mixtures abject to federal, state and local laws.			
SECTION 14 T	RANSP	ORT INFORMATION			
UN #:	None				
UN Shipping Name:	None				
UN Classification:	None				
UN Packing Group:	None				
Marine Pollutant:	☐ Yes 🛮 No	Chemical name (wt%):			
Special Precautions:	None				
SECTION 15 R	REGULA	TORY INFORMATION			
< EU Information >					
Information on the	Label:				
Symbol & Indica	ation: No	ot required			
R-Phrase: Not required					
S-Phrase: Not required					
Dangerous Component(s): None					
Special Precaution Not required	ons unde	r 1999/45/EC Annex V:			
Specific Provisions	in Relati	ion to Protection of Man or the Environment:			
76/769/EEC:	Not regu	lated			
(EC)2037/2000:	Not regu	lated			
(EC)304/2003:	Not regu	regulated			
Others:	None				
< USA Information >					
Information on the					
Signal Word:	Not required				
Hazard warning Not required	; :				



Safety Advice:

Not required

Hazardous Component(s):

None

SARA Title III §313:

Chemical Name Weight %

None

California Proposition 65:

Chemical Name Weight %

None

< Canada Information >

WHMIS Controlled Product: Not a controlled product

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

None

Literature Reference:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

Abbreviations

"EU" stands for European Union.

"OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration(USA).

"ACGIH TLV" stands for TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.

"EU ILV" stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.

 $"DFG\ MAK"\ stands\ for\ MAK (Maximale\ Arbeitsplatzkonzentrationen)\ under\ Deutsche\ Forschungsgemeinschaft.$

"TWA" stands for Time Weighted Average.

"IARC" stands for International Agency for Research on Cancer.

"NTP" stands for National Toxicology Program (USA).

"OSHA HCS" stands for Occupational Safety and Health Act, Hazard Communication Standard(USA).

 $"FHSA"\ stands\ for\ Federal\ Hazardous\ Substances\ Act (USA).$

"WHMIS" stands for Workplace Hazardous Materials Information System.

"NOHSC" stands for National Occupational Health and Safety Commission Act 1985.

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